



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040374	ACI001-VC	7	1	Net 30	MT-1144-R4.500	1144 Steel Proof Round Bar 4.500"			10	7/16/2018	10		S094657	Stock	7/20/2018	\$ 217.26 / ft	0		\$2,199.76	Acier Ouellette Inc.
		15			MT-4140-B-1.000X1.000	4140 Steel Bar 1.000 X 1.000 ; AISI 4140N STEEL BAR PER MIL-S-5626 AMS 6382, AMS 6349, AMS 6529 receive ft			24		24		S094658	Stock	7/20/2018	\$ 20.50 / ft	0		\$497.02	Acier Ouellette Inc.
		16			MT-4140-S-1.500X2.000	4140 Steel Bar 1.500 X 2.000 ; MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft			6		6		S094659	Stock	7/20/2018	\$ 42.50 / ft	0		\$255.00	Acier Ouellette Inc.
Total:											40								\$2,228.90	

Plex 7/20/2018 4:06 PM dart.Tollis.Andrew



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO000098708

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

DART AEROSPACE LTD

, Ontario,

At: CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CLI0001056

Date 2018/07/05

Delivery date 2018/07/20

Your order N° 040374

Processed by Eric Kaehlert

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ROUND STRESSPROOF 4 1/2 RANDOM NS ASTM A311 CF RST-412-V 11330 1 X 121" PRE-CUT ** CERTIFICATE ** LINE: 7 AC17925-JG-2018-07-16 V Heat (A174952) At	545.13	10.08	PI							
2 PLATE 4140 HEAT TREAT 1 NS P4140-1H 8796 2 PCS 1" X 144" ** CERTIFICATE ** LINE# 15 AC17926-EL-2018-07-18 Heat (302904) At	81.68	2.00	PI2							
3 PLATE 4140 HEAT TREAT 1 1/2 NS P4140-112H 8283 1 PC 2" X 6' ** CERTIFICATE ** LINE: 16 AC17926-FU-2018-07-18 Heat (302904) At	61.20	1.00	PI2							



DELIVERY - CLIENT

CO00098708

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
Total Weight (Lbs) : 688.01				NIR : R-109516-6						
Conditions : All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.										
Prepared By :	Verified By : 	Delivered By : 	Time	Customer's Signature				Date		
								1/80/2020		



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040374**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO040374
PO Date: 6/29/18
Due Date: 7/11/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Phone:

E-MAILED
JUL 05 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments: QUOTE NO. sou0117139

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M6061T6B0.500X01.250		6061-T6 Bar .500 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	7/11/18	20 ft	0 ft	20 ft	\$2.637/ft	\$52.74
2		M6061T6B1.000X12.000		6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	7/11/18	12 ft	0 ft	12 ft	\$57.274166/ft	\$687.29
3		M6061T6B1.250X04.500		6061-T6 Bar 1.25 X 4.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	7/11/18	8 ft	0 ft	8 ft	\$43.85625/ft	\$350.85

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4		M6061T6B1.500X3.000		6061T6 Bar 1.500 X 3.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	7/11/18	6 ft	0 ft	6 ft	\$18.308333/ft	\$109.85
5		M1018R1.375		M1018R1.375 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft	Firmed	7/11/18	15 ft	0 ft	15 ft	\$6.0573333/ft	\$90.86
6		M1018B1.000X03.000		1010-1025 Steel Bar 1.000 X 3.000 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W	Firmed	7/11/18	12 ft	0 ft	12 ft	\$12.235/ft	\$146.82
7		MT-1144-R4.500		1144 Steel Proof Round Bar 4.500"	Firmed	7/18/18	8 ft	0 ft	8 ft	\$15.210833/ft	\$121.69
8		M5052H32S.125		5052-H32 .125 Sheet MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR 4027 OR ASTM B209	Firmed	7/11/18	32 sf	0 sf	32 sf	\$8.21/sf	\$262.72
9		MT-4140QT-R0.750		AISI 4140 Quenched & Tempered Steel Round Bar 0.750" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	7/11/18	20 ft	0 ft	20 ft	\$3.0935/ft	\$61.87
10		MT-4140QT-R1.000		AISI 4140 Quenched & Tempered Steel Round Bar 1.000" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	7/11/18	15 ft	0 ft	15 ft	\$5.031333/ft	\$75.47

Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
11		MT-4140QT-R2.250		AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	7/11/18	10 ft	0 ft	10 ft	\$25.64/ft	\$256.40
12		MT-4140QT-R4.000		AISI 4140 Quenched &Tempered Steel Round Bar 4.000" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	7/11/18	3 ft	0 ft	3 ft	\$85.28/ft	\$255.84
13		MT-HRS-P-0.3125		Hot Rolled Steel Plate 0.3125" (44W) MATERIAL: HOT ROLLED STEEL PLATE ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018	Firmed	7/11/18	16 sf	0 sf	16 sf	\$11.59625/sf	\$185.54
Line Item Note 1 pcs 4 ft x 4 ft											
14		M6061T6R1.375		6061-T6 Round Bar 1.375" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	7/11/18	15 ft	0 ft	15 ft	\$6.033333/ft	\$90.50
15		MT-4140-B-1.000X1.000		4140 Steel Bar 1.000 X 1.000 : AISI 4140N STEEL BAR PER MIL-S-5626, AMS 6382, AMS 6349, AMS 6529 receive ft	Firmed	7/19/18	24 ft	0 ft	24 ft	\$20.495833/ft	\$491.90
16		MT-4140-S-1.500X2.000		4140 Steel Bar 1.500 X 2.000 : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed	7/19/18	6 ft	0 ft	6 ft	\$42.50/ft	\$255.00
Grand Total:										\$3,495.34	

Order Notes

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 7/4/18 2:12 PM dart.lavoie.chantal

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation**SOU0117139****Billed to**

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

2018/06/28

Revision N 

0

Prices valid until**2018/07/05****Your Order N ****Processed by**

Eric Kaehlert

Salesman

ERIC

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

P10: 040374

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT ALU 1/2 X 1 1/4 6061-T6 * FAL-12114 2469 1 X 20' 2-3 DAYS	15.70	20.00	PI_\$CLB	20.00	PI	2.64			52.74
FLAT ALU 1 X 12 6061-T6 * FAL-112 2450 SAW CUT SCIE 1 1 X 12' STOCK	169.34	12.00	PI_\$CLB	12.00	PI	56.44			677.29
		1.00	UN	1.00		10.00			10.00
ALU PLATE 1 1/4 6061-T651 RANDOM PAL-1146061-V 7453 1 X 4-1/2" X 8' 2-3 DAYS	53.88	3.00	PI2	3.00	PI2	116.95			350.85
FLAT ALU 1 1/2 X 3 6061-T6 * FAL-1123 2445 1 X 6' STOCK	31.75	6.00	PI_\$CLB	6.00	PI	18.31			109.85
ROUND CR 1 3/8 1018 (R) RCR-138 5275 1 X 15' STOCK	75.75	15.00	PI_\$CLB	15.00	PI	6.06			90.86
FLAT CR 1 X 3 1018 (R) FCR-13 2727 1 X 12' R/L STOCK	122.40	12.00	PI_\$CLB	12.00	PI	12.23			146.82
ROUND 4-1/2" DIA RANDOM STRESSPROOF ASTM A311 CF N 1 X 8' 6-7 DAYS	0.00	1.00	UN	1.00	UN	2 190.00			2 190.00
ALU SHEET 1/8 5052-H32 RANDOM FEAL-18-V5052 4262 1 X 4' X 8' PVC 1 SIDE 2-3 DAYS	56.38	32.00	PI2_\$CLB	32.00	PI2	8.21			262.72
ROUND 4140 HEAT TREAT 3/4 (R) R4140-34H 4949 1 X 20' R/L STOCK	30.04	20.00	PI_\$CLB	20.00	PI	3.09			61.87

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0117139

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/06/28

Revision N°

0

Prices valid until

2018/07/05

Your Order N°

Processed by

Eric Kaehlert

Salesman

ERIC

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND 4140 HEAT TREAT 1 (R) R4140-1H 4919 ✓ SAW CUT SCIE 1 <i>1 X 15' STOCK</i>	40.05	15.00	PI_\$CLB	15.00	PI	4.70			70.47
ROUND 4140 HEAT TREAT 2 1/4 (R) R4140-214H 4927 ✓ SAW CUT SCIE 1 <i>1 X 10' 2-3 DAYS</i>	135.20	10.00	PI_\$CLB	10.00	PI	25.14			251.40
ROUND 4140 HEAT TREAT 4 (R) R4140-4H 4965 ✓ SAW CUT SCIE 1 <i>1 X 3' STOCK</i>	132.21	3.00	PI_\$CLB	3.00	PI	81.95			245.84
PLATE 44W 5/16 RANDOM P44-516-V 4124 ✓ COUPE AU FEU FEU 3 <i>1 X 4' X 4' 3-4 DAYS</i> <i>165K</i>	204.00	16.00	PI2_\$CLB	16.00	PI2	9.68			154.94
ROUND ALU 1 3/8 6061-T6 * RAL-138 5132 ✓ <i>1 X 15' STOCK</i>	26.16	15.00	PI_\$CLB	15.00	PI	6.03			90.50
PLATE 4140 HEAT TREAT 1 NS P4140-1H 8796 ✓ <i>2 PCS 1" X 144" 7-10 DAYS</i>	81.68	2.00	PI2	2.00	UN_\$UN	245.95			491.90
PLATE 4140 HEAT TREAT 1 1/2 NS P4140-112H 8283 ✓ <i>1 PC 2" X 6' 7-10 DAYS</i>	61.20	1.00	PI2	1.00	UN_\$UN	255.00			255.00

Date :

Next Page...

Date : _____ **Total (\$CAD)** **6 291.39**

Chantal Lavoie

From: Chantal Lavoie
Sent: Thursday, June 28, 2018 10:18 AM
To: Eric Kaehlert
Subject: quote

Good morning Eric,
Please advise price and delivery on mat'l.

~~6061-t6 bar 0.500" x 1.250" x 12 ft~~

~~6061t6 bar 1" x 12" x 12 ft~~

~~6061-t6 bar 1.250" x 4.5" x 8 ft~~

~~6061-t6 bar 3" x 1.5" x 6 ft~~

~~1018 round bar 1.375" x 12 ft~~

~~1018 bar 1" x 3" x 12 ft~~

~~1144 round bar 4.5" x 8 ft~~

~~4140 qt round bar 0.750" x 24 ft~~

~~4140-qt round bar 1" x 12 ft~~

~~4140 qt round bar 2.250" x 8 ft~~

~~4140-qt round bar 4" x 3 ft~~

~~5052h32 sheet .125" x 4 ft x 4 ft = 16 sf~~

~~4140 bar 1" x 1" x 24 ft~~

~~4140 plate or bar 1.5" x 2" x 6 ft~~

~~Hrs plate 0.3125" x 4 ft x 4 ft = 16 sf~~

~~6061t6 round bar 1.375" x 12 ft~~

Thanks
Chantal

Chantal Lavoie
Purchasing Coordinator

CERTIFICATE OF TEST 98708 CERTIFICAT D'ESSAIS Dart

17925N
Page 01 of 02

Certification Date
16-JUL-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T381855

AC00017925
PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.
VENDU À: DIVISION SALABERRY DE VALLEYFIELD EXPÉDIENT DIVISION SALABERRY DE VALLEYFIELD
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIE QC J6S

Description: STRESSPROOF® CF BAR ASTM A311 CL B
4-1/2 RD X 10-11.0" (121.0") REMNANT Line Total: 545.809 LB
HEAT: A174952 ITEM: 501825

Specifications:
ASTM A108 13 ASTM A311 CL B 10 ASTM A29 15

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.45	1.40	0.005	0.30	0.25	0.08	0.11	0.04
CU	AL	V	N	PB	B	NB	
0.14	0.001	0.004	0.011	0.004	0.0011	0.001	

RCPT: R358746

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

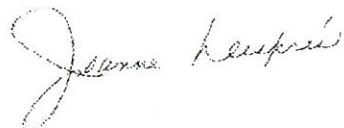
DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED	HARDNESS
	PSI	PSI	IN 02 IN	IN AREA	BHN
	115022.0	127306.0	10.2	26.7	255

GRAIN SIZE : 3 -

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES


MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
16-JUL-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00017925

Invoice Number
T381855

PART NUMBER/NUMÉRO DE PIÈCE

SOLD TO:	ACIER OUELLETTE INC.	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:	DIVISION SALABERRY DE VALLEYFIELD	EXPÉDIÉ À:	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1		SALABERRY-DE- VALLEYFIE QC J6S

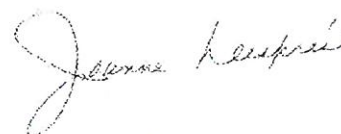
Description: STRESSPROOF« CF BAR ASTM A311 CL B
4-1/2 RD X 10'1.0" (121.0") REMNANT Line Total: 545.809 LB
HEAT: A174952 ITEM: 501825

STRAND CAST REDUCTION RATIO 7.9 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES


MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

1 2 3 4 5 6 7 8

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	WM

24.7.09.12

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR
SPECIFICATION: ASTM A311 or UNS G11440
PART NUMBER: MT-1144-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = MT-1144-R0.625

DART
AEROSPACE
Technology, Ontario, Canada

TITLE AISI 1144 STRESSPROOF STEEL
ROUND BAR

DWG NO. MT-1144-R

REV	REV
A	A

DESIGN BY:	VM 8/3/2017	2002 1 006	FRACTIONS & UN
DRAWN BY:	VM 08/31/2017	X 1	UNITS
CHECKED:	SAC 08/31/2017	X 1	SURFACES • RV
INFO. APPL:	DP 08/31/2017	1	DIMENSIONS ARE IN INCHES
QA APPL:	PD 08/31/2017	2	INTERPRETATION AND TOL PER
APPROVED:	WM 09/05/2017	3	ADDITIONAL COMMENTS APPLY
DATE:	8/31/2017	SCALE:	NTS WEIGHT 00 LBS

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THIS IS A SPECIFICATION CONTROL DRAWING AND NOT A PART TO BE MANUFACTURED AS SHOWN. IT IS THE RESPONSIBILITY OF THE USER TO OBTAIN THE LATEST REVISIONS AND TO FOLLOW THE INSTRUCTIONS THEREIN.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-1144-24.500
 DATE: 18/07/23

PO / BATCH NO.: P0046374/5044657

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 10.125'
 QUANTITY INSPECTED: 10.125'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.500"
 THICKNESS RECEIVED: 4.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	Y (N)	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	Y (N)	
CORRECT MATERIAL PER M-DRAWING	Y (N)	ATM A311
CORRECT THICKNESS	Y (N)	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	Y (N)	MT: A174952
CORRECT MATERIAL IDENTIFICATION	Y (N)	
CORRECT M# ON THE MATERIAL	Y (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/07/23</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

98708

Dart

17926N

Chemical certification
Certification chimique


Order Num / No. Commande AC-17926	Vendor / Fournisseur 46	Country of origin / Pay d'origine SLOVENIA	Date 12/11/17	Heat / coulée 302904	Material ID # / No. matière
Grade / Nuance 4140 PLT	Conditions HEAT TREATED, E + VD				
Shape / Forme PLT	Size / Dimension 1.500	Specifications ASTM A829/A829M			

Chemical composition / Analyse chimique				
Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)	
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190	
Actuel % 0.418	0.200	0.768	0.012	
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)	
Mini / maxi 0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500	
Actuel % 0.001	0.980	0.120	0.160	
Copper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)	
Mini / maxi 0.1900 / 0.2900	0.0400 / 0.0500	0.0000 / 0.0000	0.0000 / 0.0000	
Actuel % 0.212	0.034	0.026	0.000	
Cobalt (Co)	Titanium (Ti)			
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % 0.000	0.000	0.000	0.000	0.000
Mechanical properties / Propriétés Mécaniques				
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC
0.000 PSI	0.000 PSI	0.00	0.00	
				Surface Hd / Dureté
				303 BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.


Prepared by: / Préparé par:

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL BAR
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626, MIL-S-24093

PART NUMBER: MT-4140-B-[T.TTT] x [W.WWWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWWW" = WIDTH IN INCHES

EX. 4.0" x 6.0" BAR = MT-4140-B-4.000x6.000

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-780	17.12.13	VM	ML
B	MIN & MAX Rc CHANGED	18-523	18.01.24	VM	ML
C	ADD AISI 4142	18-544	18.02.14	ML	ML



TITLE
AISI 4140 / 4142 STEEL BAR

PART NO. MT-4140-B REV. C

UNLESS OTHERWISE SPECIFIED:	
DESIGNED BY:	INITIALS AND DATE
DRAWN BY:	DATE
CHECKED BY:	DATE
MFG NEW/REV:	DATE
APPROVED BY:	DATE
COPYRIGHT © 2017 BY DART AEROSPACE LTD.	

8 7 6 5 4 3 2 1

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	HL

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A829 / AMS 6395

PART NUMBER: MT-4140-S-[T.TTT] x [W.WWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX: 0.063" THICK SHEET = MT-4140-S-0.063
EX: 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500



18-544

AISI 4140 / 4142 STEEL SHEET OR PLATE

PART NO. MT-4140-S

REV. A

18-544

DATE 18.2.13

BY VM

APPROVED HL

18-544

18.2.13

18-544

18-544

18-544

18-544

18-544

18-544

18-544

18-544

18-544

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7-4140-B-1.000x1.000
 DATE: 18/07/23

PO / BATCH NO.: P0040374/5094658

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 24.25 ft
 QUANTITY INSPECTED: 24.25 ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: -
 SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM A829 acceptable for today use only
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	H7: 30290Y 30290Y
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AI</u> DATE: <u>18/07/23</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

98708

Dart

17926N

Chemical certification
Certification chimique

Order Num / No. Commande AC-17926	Vendor / Fournisseur 46	Country of origin / Pay d'origine SLOVENIA	Date 12/11/17	Heat / coulée 302904	Material ID # / No. matière
Grade / Nuance 4140 PLT	Conditions HEAT TREATED, E + VD				
Shape / Forme PLT	Size / Dimension 1.000	Specifications ASTM A829/A829M			

Chemical composition / Analyse chimique				
Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)	
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190	
Actuel % 0.418	0.200	0.768	0.012	
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)	
Mini / maxi 0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500	
Actuel % 0.001	0.980	0.120	0.160	
Copper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)	
Mini / maxi 0.1900 / 0.2900	0.0400 / 0.0500	0.0000 / 0.0000	0.0000 / 0.0000	
Actuel % 0.212	0.034	0.026	0.000	
Cobalt (Co)	Titanium (Ti)			
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % 0.000	0.000	0.000	0.000	0.000
Mechanical properties / Propriétés Mécaniques				
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC
0.000 PSI	0.000 PSI	0.00	0.00	
				Surface Hd / Dureté 303 BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

MS
Prepared by: / Préparé par:

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
 MINIMUM ROCKWELL C = 28 Rc
 MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A829, AMS 6395

PART NUMBER: MT-4140-S-[T.TTT] x [W.WWW]
 WHERE "T.TTT" = THICKNESS IN INCHES
 WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

DART AEROSPACE Windsorbury, Ontario, Canada	
TITLE AISI 4140 / 4142 STEEL SHEET OR PLATE	
PART NO. MT-4140-S	REV. A
TOOL NO. -	
DESIGNED BY: VM 2/13/2018 DRAWN BY: VM 02/13/2018 CHECKED BY: VM 02/13/2018 MFG REVIEW BY: DO 02/13/2018 APPROVED BY: ML 02/14/2018	
INTALS AND DATE TOLERANCES FRACTIONS ± 1/16 DECIMALS ± 0.005 SURFACE ROUGHNESS SCALE: NTS SHEET 1 OF 1 COPYRIGHT © 2018 BY DART AEROSPACE LTD	
DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING	

Noted

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7-4140-5-1.500 x 2.000
 DATE: 18/07/23

PO / BATCH NO.: P00403745094659

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	N	ASTM A821
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	HT-302904
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u> <i>A</i> </u>	SIGNED OFF BY: <u> </u>
DATE: <u>18/07/23</u>	DATE: <u> </u>

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in